

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Family Grocery Cost Calculator MCP

Keep your household food spending on track.

Family Grocery Cost Calculator MCP handles the math for your household food expenses. It lets your AI client calculate total spending, split bills between family members, and check if you are staying within your planned budget. Instead of manual spreadsheets, you just tell your agent what you spent and let it handle the breakdown.

A+ Quality Score 100/100

grocery

budget

household

finance

calculator



The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Family Grocery Cost Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Managing a household budget is a headache when you're constantly juggling receipts and trying to figure out who owes what. This MCP takes that math off your plate. You can use it to get a clear picture of your grocery spending without opening a calculator or a spreadsheet. If you're living with roommates or a large family, you can quickly figure out individual shares of a single bill. It also helps you stay disciplined by comparing what you actually spent against what you intended to spend. Your AI client can provide a full breakdown of your grocery metrics, giving you a high-level view of your spending habits. It's a simple way to turn your chat interface into a dedicated household finance assistant.

Core Capabilities

01 — Budget Tracking

Your agent checks if your current spending exceeds your set limits.

02 — Bill Splitting

The AI calculates individual portions of a shared grocery bill.

03 — Expense Aggregation

Your client sums up total family expenditures instantly.

04 — Metric Summaries

The MCP generates a full breakdown of household grocery data.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-grocery-cost-calculator — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Select the Family Grocery Cost Calculator from the catalog.
- 03 Start typing grocery-related questions or commands in your AI chat.
- 04 The AI uses the specific tools to perform the math and provide answers.

Setting up this MCP takes seconds and works directly within your existing AI workflow.

Built For

This MCP is built for anyone managing a shared household budget or large family expenses.

Heads of Household

They hand off budget tracking and total cost calculations to their AI.

Roommates

They use the tool to split grocery bills fairly and quickly.

Budget-conscious Parents

They use it to monitor food spending against weekly or monthly limits.

What Changes When You Connect

- 01 Eliminates manual math for splitting grocery bills.
- 02 Provides instant feedback on budget overages.
- 03 Centralizes household food spending data within your AI chat.

Real-World Applications

Splitting Shared Bills

Calculate exactly what each roommate owes after a trip to the store.

Monitoring Budget Creep

Check if your grocery spending is drifting away from your planned budget.

Family Expense Tracking

Get a total view of how much the whole family is spending on food.

Financial Review

Request a full summary of grocery metrics to see your spending patterns.

Patterns to Avoid

Manual Math Errors

❌ AVOID

You try to manually divide a \$142.50 receipt among four roommates using a standard calculator. You end up arguing over cents and rounding errors.

✓ INSTEAD

Let the MCP do the heavy lifting. Use ``getIndividualShare`` to get an exact breakdown of what each person owes.

Ignoring Budget Drift

❌ AVOID

You check your bank account at the end of the month and realize you spent \$200 more on food than you planned.

✓ INSTEAD

Stay ahead of overspending. Use ``getBudgetVariance`` to see exactly how much you've drifted from your target limits.

Vague Spending Questions

❌ AVOID

You ask your AI client if your grocery spending is okay without providing any specific data points.

✓ INSTEAD

Get a clear picture of your habits. Use ``getHouseholdSummary`` to pull a full breakdown of all your grocery metrics.

The Right Fit

Connect this MCP if you manage a shared household budget or a large family where food costs fluctuate. Do not connect it if you live alone and track expenses through a different specialized accounting system. The decision comes down to whether you want your grocery math to live inside your AI chat interface.

Family Grocery Cost Calculator Tools

These tools handle the math for your household food spending. They turn raw grocery totals into actionable budget data and individual split amounts.

#	TOOL	DESCRIPTION
01	getBudgetVariance	This tool compares your actual grocery spending against the budget you planned.
02	getHouseholdSummary	This tool provides a complete breakdown of all your household grocery metrics.
03	getIndividualShare	This tool calculates exactly how much one person owes when you know the total bill amount.
04	getTotalCost	This tool determines the total amount spent on groceries for your family.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What is the total grocery cost for a family of 4 where each person costs \$50?



The total grocery cost for a family of 4 at \$50 per person is \$200.

U If the total grocery bill is \$150 and there are 3 people, what is each person's share?



Each person's share is \$50.

U I planned to spend \$40 per person for 5 people, but the actual total was \$220. Am I over budget?



Yes, you are over budget by \$20.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect your Claude client to the Vinkius platform, which hosts the MCP for you. Once connected, you can simply ask Claude to perform grocery calculations.

02 Can I split bills with roommates using this tool?

Yes. You can use the tool to calculate an individual share of a total bill based on the number of people involved.

03 Does this MCP track my spending automatically?

The MCP provides tools to calculate and summarize the data you provide to your AI client. It performs the math based on the inputs you give it.

04 Can I check if I am over my grocery budget?

Yes. The tool allows you to compare your actual spending against a pre-planned budget to see if you have exceeded it.

05 What kind of clients are compatible?

This MCP works with any MCP-compatible client, including Claude, Cursor, Windsurf, and VS Code.

06 How do I calculate the total cost for my family?

You can use the ``get_total_cost`` tool by providing the number of people in your household and the cost per person. Tools available: ``getTotalCostTool``, ``getIndividualShareTool``, ``getBudgetVarianceTool``.

07 How is the individual share calculated?

The ``get_individual_share`` tool divides the total grocery bill by the number of people in the household.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"family-grocery-cost-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Family Grocery Cost Calculator is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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